

REMARKS**Introduction**

In response to the Office Action dated November 27, 2006, the Applicant has amended claims 1, 2, 4, and 45-47 to more particularly point out and distinctly claim the subject matter of the invention. Care has been taken to avoid the introduction of new matter. The Applicant has amended the Specification and Abstract to further clarify the number of substituents of the first and second monomer. Claims 3 and 5-44 are withdrawn. In view of the foregoing amendments and the following remarks, Applicants respectfully submit that all pending claims are in condition for allowance.

Claim Objections

Claims 1, 2, 4, and 45-47 are objected to for various informalities. The Applicant has amended claims 1, 2, 4, and 45-47 to more clearly recite the amount of substituents for the first and second monomers as suggested by the Examiner. The Office Action suggests amending claims 1 and 45 to amend "a substituted acetylenyl group" to --three substituted acetylenyl groups--. However, the first monomer of the present application has four, not three, substituted acetylenyl groups as shown, for example, in Chemical Formula 1. Accordingly, amended independent claims 1 and 45 recite, "...a first monomer having four substituted acetylenyl groups."

Withdrawal of this objection is respectfully solicited.

Claim Rejections Under 35 U.S.C. § 112

Claims 1, 2, 4, and 45-47 stand rejected under 35 U.S.C. § 112, second paragraph, as allegedly being indefinite. The Office Action states, "the recitation of a first monomer having a substituted acetylenyl group and polymerizable in the three-dimensional direction and a second

monomer having a substituted cyclopentanonyl group and polymerizable in the two-dimensional direction causes indefiniteness because it can be interpreted to contain only one substituted acetylenyl or cyclopentanonyl group and polymerize in three-dimensional or two-dimensional direction with other functional groups.”

One exemplary embodiment of the present invention is illustrated, for example, in Figure 1; in which the first monomer is represented by chemical Formula 1 and the second monomer is represented by chemical Formula 2. Chemical formula 1 shows the first monomer having four substituted acetylenyl groups and polymerizable in the three-dimensional direction (*see, e.g.*, Paragraph [0060] of Applicant’s specification). Chemical formula 2 shows the second monomer having two substituted cyclopentanonyl groups and polymerizable in the two-dimensional direction (*see, e.g.*, Paragraph [0060] of Applicant’s specification). Amended, independent claim 1 recites, for example, “...a first monomer having four substituted acetylenyl groups and polymerizable in the three-dimensional direction and a second monomer having two substituted cyclopentanonyl groups.”

Withdrawal of this rejection is respectfully solicited.

Allowable Subject Matter

The indication of allowable subject matter in claims 1-2, 4, and 45-47 is acknowledged and appreciated.

Conclusion

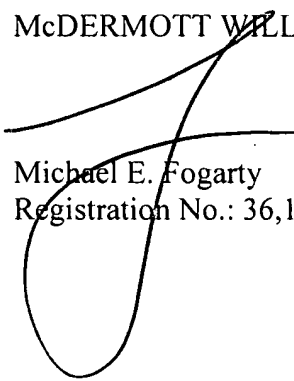
Having fully responded to all matters raised in the Office Action, the Applicant submits that all claims are in condition for allowance, an indication for which is respectfully solicited.

If there are any outstanding issues that might be resolved by an interview or an Examiner's amendment, the Examiner is requested to call the Applicant's attorney at the telephone number shown below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 500417 and please credit any excess fees to such deposit account.

Respectfully submitted,

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